

RESEARCH ADVANCES...



CLINICAL INVESTIGATION AND RESEARCH DEPARTMENT

VOL. 1 ISSUE 1

JUNE 2010

Commander's Research Fund and Navy Medicine Clinical Research Awards

Our Mission

The Clinical Research and Investigation Department (CIRD) leads and directs best research practice throughout Navy Medicine East by facilitating research and providing investigators professional guidance from protocol inception, through funding, execution, and publication, thus contributing to the overall support of the Commander's medical mission.

Congratulations to the following investigators who were awarded FY10 Commander's Grant Research Fund support:

CAPT Paul Lucha for *Anatomic Dissection Training Facilitates Improved Performance in Resident Training for Operative Procedures – A preliminary investigation.*

LT Ellie Mentler for *Continuous Infusion of Local Anesthetic for Optimal Post Operative Pain Control following Hemorrhoidectomy: A Randomized Double-blind Controlled Trial and Open Wide Excision versus Minimal Surgery for Pilonidal Disease: A Randomized Control Trial* and for *Evaluating for Early Recurrence and Patient Satisfaction.*

CDR Timothy Clenney for *The Prevalence of Semicircular Canal Dehiscence among Patients with Chiari type I Malformation.*

LT Matthew Langford for *Infections of the First Dorsal Web: A Cadaveric Study.*

LCDR John Devlin for *Evaluation of supraglottic airway devices under simulated tactical conditions and esophageal pressures associated with vomiting.*

CAPT Marlene DeMaio for *The physiologic myofascial compartments of the foot and for effects of fasciotomy: a cadaver study.*

Congratulations to the following investigators who were awarded funding from the Navy Surgeon General:

CDR Reese Lee for *Assessment of Exhaled Oxidant in Asthma Patients Treated with Lipoic Acid.*

CAPT Marlene DeMaio for *Evaluation of Extremity Fractures from Ballistic Fragments.*

LT Jason Rockwood for *Insertional Trauma From Suprapatellar Portal and Converted*

Tibial Portal Intramedullary Nails.

LT Ellie Mentler for *Non Operative Management of Complicated Appendicitis in the Community Setting.* and *Wound Infection Rates Associated with Use of Ertapenemin in Elective Colorectal Surgery.* and *Vacuum Associated Closure of the Abdominal and Enterocutaneous Fistula.*

LT Jarrod Goodrich for *The Effects of Localized Hypothermia and Negative Pressure Wound Therapy on Bacterial Proliferation in an Open Fracture Model in Goats.*

CAPT Gail Manos for *Interpersonal Psychotherapy for Depressed Spouses of Navy Service Members.*

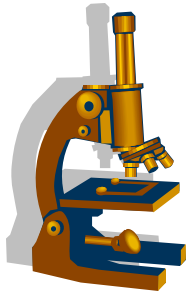
CDR Greg Nezat for *Effect of Intraoperative IV Lidocaine in Reduction of Post-Op Pain and Return of Bowel Function in Patients Undergoing Laparoscopic Abdominal and GYN Surgery.*

What's in a name? Our newsletter is titled "Research Advances" because we believe research advances science, technology and the researcher in immeasurable ways.

Inside this issue:

FUNDED AWARDS	1
COMPETITION WINNERS	2
BELMONT REPORT	2
MEET: DR. THOMAS S. RIEG	3
RESEARCH ACTIVITY	4
YOUR OPINION MATTERS!	4

WHEN YOU THINK
RESEARCH, THINK
CIRD



"Research is to see what everybody else has seen, and to think what nobody else has thought."

-Albert Szent-Gyorgyi

And the winners are...

The 25th Annual Naval Medical Center Portsmouth Academic Research Oral Session was held on 23 April. Congratulations to the following winners:

Category 1

(NMCP IRB approved clinical research under the jurisdiction of CIRD)

Trainees

The first place winner is LT Jonathan M. Roth for *The effects of localized hypothermia on bacterial colony counts in soft tissue infections in rats*. Co-authors are LT Jarod Goodrich, LCDR James A. Blanks (Ret), LTC Len Murray, CDR Christopher Hogan, and CAPT Robert Ruland. The second place winner is CDR Timothy Clenney for *The association between semicircular canal dehiscence and Chiari I malformation*. The coauthor is CAPT Jeffery Kuhn (Ret). The third place winner is LT James Hammond for *When should*

tension band wire fixation be abandoned? Biomechanical and motion analysis of a transverse olecranon fracture model. The co-authors are CAPT Robert Ruland, CDR Christopher Hogan, David Rose, MCRS, and Stephen Belkoff, PhD.

Staff

The first place winner is LT Timothy Hall for *Pre-warming of the endotracheal tube and its effect on reducing emergence phenomenon*. The co-authors are LCDR Brian Atchison, LT Doris Chen, CDR Gregory Nezat, and CAPT Joseph Pellegrini (Ret). The second place winner is CAPT Marlene DeMaio for *Physical Performance Decrements in Military Personnel Wearing Personal Protective Equipment (PPE)*. Co-authors are James Onate, PhD, David Swain, PhD, Stacie Ringleb, Steven Morrison, and Dayanand Naiak. The third place winner is LCDR

Monica A. Lutgendorf, for *Domestic Violence Screening of Obstetric Triage Patients in a Military Population*. The co-authors are Capt Andrew Thagard, USAF, CAPT Paul D. Rockswold, and Dr. Jeanne M. Busch.

Category 2

(Research conducted under the jurisdiction of another institution and approved by an Institutional Review Board at the place where it was conducted.)

Trainees

The winner is LT Jack Brandau for *Simple physiologic criteria for the expectant management of civilian or military mass casualties*.

Staff

The winner is Alexander Holston, MD for *Body size and composition trends in premature infants: 1998 to 2008*. The co-authors are Theophil Stokes, MD, Young Choi, MD, Jerri Curtis, MD, Cara Olsen, PhD and Carl Hunt MD.

FROM THE BELMONT REPORT: THE BASIC ETHICAL PRINCIPLES - THOSE THAT GUIDE ETHICS OF RESEARCH INVOLVING HUMAN SUBJECTS

1. **Respect for Persons:** Incorporates at least two ethical convictions: first, that individuals should be treated as autonomous agents (i.e., acknowledgement), and second, that persons with diminished autonomy are entitled to protection (i.e., protect).
2. **Beneficence:** Persons are treated in an ethical manner not only by respecting their decisions and protecting them from harm, but also by making efforts to secure their well-being. Two general rules: (1) do no harm and (2) maximize possible benefits and minimize possible harm.
3. **Justice:** Who ought to receive benefit of research and bear its burdens. This is the question of justice, in a sense of "fairness in distribution" or "what is deserved". Acceptable distribution of burden and benefits are: (1) to each person an equal share, (2) to each person according to individual need, (3) to each person according to individual effort, (4) to each person according to societal contribution, and (5) to each person according to merit.

Meet our staff

DR. THOMAS S. RIEG

Dr. Thomas Rieg is the Research Director at NMCP and the head of the Clinical Investigation and Research Department. Born in Offenhausen, Germany, he received his PhD in Experimental Psychology from the University of Rhode Island in 1989. After completing his post-doctoral fellowship at EVMS he was an assistant professor at Winona State University, Winona, MN and Union College, Schenectady, NY. He has taught courses in Psy-

chology, Statistics and Neuroscience and has published numerous scholarly articles. Dr. Rieg joined CIRD in 2003 as the Biostatistician and in 2006 he was named Department Head. He oversees the Human Research Protection Division, Research Resources Division, and Animal Facility and Management Division. As a biostatistician, he continues to perform statistical analysis for NME investigators and provides guidance with protocol planning and design. In addition, Dr. Rieg provides training

to NMCP staff in Statistics and Research Methods, Graph Creation, Evidence Based Medicine, as well as other topics. Dr. Rieg spends his free time with his family on Hatteras Island and is the assistant scoutmaster for Troop 207.

Dr. Rieg is pictured below.

ORTHOPAEDIC RESIDENT RESEARCH PRESENTATIONS

11 JUNE 2010

ORTHOPAEDIC
CONFERENCE
ROOM

0730-1200



Research Competition participants pictured are: Dr. Thomas Rieg, LT James Hammond, LCDR Monica Lutgendorf, LT Alexander Holston, LT Jack Brandau, CAPT Matthew Pommer, Dr. Wayman Cheatham, CDR William Beckman, CAPT Marlene DeMaio, Dr. Timothy McGuirk, LT Jonathan Roth, and LT Timothy Hall.

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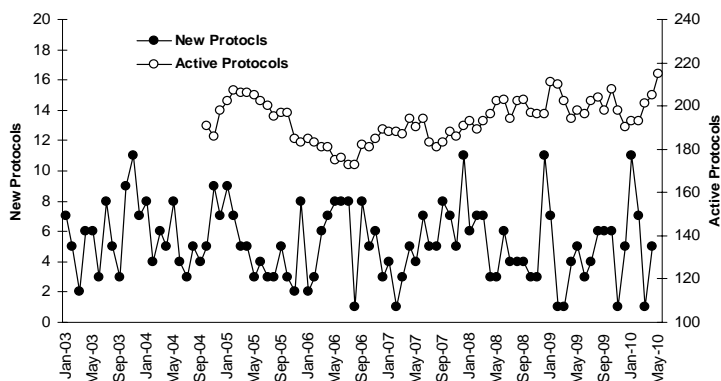
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E-mail Questions/Comments to:
Christine.Ehlers@med.navy.mil

Do you have research questions? For example, how to submit a proposal? Is there funding? When is a protocol exempt? How is your research approved /disapproved? We will help you!

NME Research Activity



Fall Research
Symposium -
September 2010
details
forthcoming!



"Somewhere, something
incredible is waiting to
be known."

-Dr. Carl Sagan

This is our inaugural issue and we are proud deliver a quality product. To this end, we are asking for your input regarding items of interest to you. Below are some areas we think would be of beneficial; if you would, please e-mail us with your preferences and thoughts on our suggestions and please tell us your suggestions. Thank you.

1. Research process from "good idea" through completed study and publication
2. Funding Opportunities Primer
3. CRADA Primer
4. Essentials of the IRB
5. Our guiding principles, rules and regulation
6. Current BUMED funding priorities
7. Staff members roles and ways in which they are able to assist you
8. Education Emphasis - e.g., research terminology, historical advancements, training, competition, symposium, and so forth.
9. Meet the Researcher - Provide an overview of a researcher's study

Please e-mail your input to: Christine.Ehlers@med.navy.mil